

CLAIMS

1. An arrangement in the on-line finishing of the paper machine, which includes at least one finishing stage (12, 13) for the paper web produced with the paper machine, and which arrangement includes

- cutting equipment (16) prior to the finishing stage (12, 13) for forming a tail from a fully wide paper web,
- tail threading equipment (15) for taking the formed tail through the finishing stage (12, 13), and
- a draw point (24) at the end of the finishing stage (12, 13) for tensioning and holding the paper web in the finishing stage (12, 13),

with the carrier rope system (17) included in the said tail threading equipment (15) being adapted to pass through the draw point (24), characterized in that the draw point (24) is formed between one cylinder (28) and a wire (29) arranged in contact with it for forming a single-contact draw point.

2. An arrangement as set forth in claim 1, characterized in that prior to the draw point (24) there are measuring elements (25) arranged to the finishing stage (12, 13) for determining the desired paper web properties and hence for setting this finishing stage (12, 13) to the production settings while the paper web is spread in its full width.

3. An arrangement as set forth in claim 1 or 2, characterized in that the cutting equipment (16) is arranged prior to the draw point (24) and is composed of water cutters that are adapted to cut the tail from the paper web within its open draw.

4. An arrangement as set forth in any of the claims 1 - 3, characterized in that the wrap angle α formed by the wire (29) on the periphery of the cylinder (28) is $100^\circ - 160^\circ$.

5. An arrangement as set forth in any of the claims 1 - 4, characterized in that in addition to the carrier rope system (17) the tail threading equipment (15) includes one or more vacuum belts (18).

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6. An arrangement as set forth in any of the claims 1 - 5, characterized in that the cylinder (28) is a dryer cylinder.

7. An arrangement as set forth in any of the claims 1 - 6, characterized in that the wire (29) is a dryer wire.

8. An arrangement as set forth in any of the claims 1 - 7, characterized in that the drive (35) included at the draw point (24) is arranged in connection with the lead roll (31) adapted to support the wire (29).

9. An arrangement as set forth in claim 8, characterized in that, in addition to the lead roll (31), the wire (29) arranged as an endless loop is supported with three other rolls (32 - 34).

10. An arrangement as set forth in claim 8 or 9, characterized in that in connection with the cylinder (28) included at the draw point (24) there is arranged an auxiliary drive (36), which is adapted to follow the drive (35) of the lead roll (31).